SONY

3-856-596-21 (1)

FM/AM Cassette Car Stereo

Operating Instructions EN

Owner's Record.

The model and serial numbers are located on the bottom of the unit.
Record the serial number in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. XR-C900 Serial No. _____

For installation and connections, see the supplied installation/connections manual.

XR-C900

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Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

EN

Welcome !

Thank you for purchasing the Sony Cassette Player. This unit lets you enjoy a variety of features by using either a rotary remote or a wireless remote.

In addition to the tape playback and the radio operations, you can expand your system by connecting an optional CD/MD changer, digital preamplifier, and digital equalizer preamplifier.

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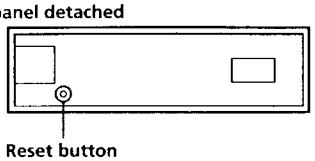
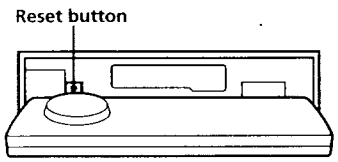
Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit.
Press the reset button with a pointed object, such as a ballpoint pen.

Front panel detached



Front panel slid down



Note

Pressing the reset button will erase the clock and some memorized functions.

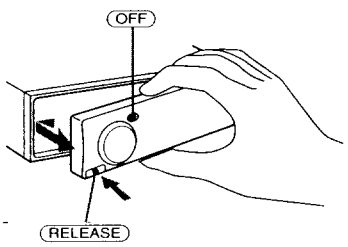
EN

Detaching the front panel

You can detach the front panel of this unit to prevent the unit from being stolen.

1 Press (OFF).

2 **Press (RELEASE) to open up the front panel. Then slide the front panel a little to the left, and pull it off towards you.**

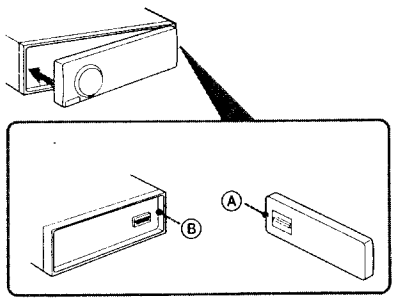


Notes

- *Do not put anything on the inner surface of the front panel.*
- *Be sure not to drop the panel when detaching it from the unit.*
- *If you detach the panel while the unit is still on, the power will turn off automatically to prevent the speakers from being damaged.*
- *When you carry the front panel with you, put it in the supplied front panel case.*

Attaching the front panel

Align part Ⓐ of the front panel to part Ⓑ of the unit as illustrated, and push until it clicks.



Notes

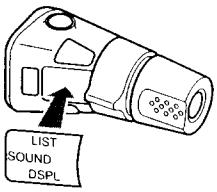
- *Be sure not to attach the front panel upside down.*
- *Do not press the front panel hard against the unit when attaching it. Press it lightly against the unit.*
- *Do not press hard or put excessive pressure on the display windows of the front panel.*
- *Do not expose the front panel to direct sunlight, heat sources such as hot air ducts, and do not leave it in a humid place. Never leave it on the dashboard of a car parked in direct sunlight where there may be a considerable rise in temperature.*

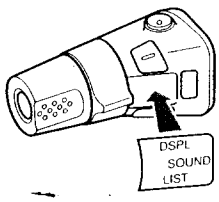
Caution alarm

If you turn the ignition key switch to the OFF position without removing the front panel, the caution alarm will beep for a few seconds (only when the POWER SELECT switch on the bottom of the unit is set to the Ⓐ position).

Preparing the rotary remote

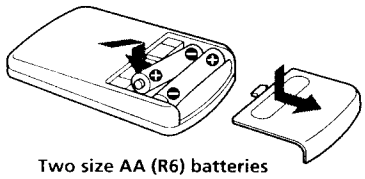
When you mount the rotary remote, attach the label in the illustration below.





Preparing the wireless remote

Installing the batteries



Two size AA (R6) batteries

Battery life is approx. six months although it depends on the way of use.

Notes on batteries

To avoid damage from battery leakage and subsequent corrosion:

— insert the batteries by matching the "+" and "–" on the batteries to the "+" and "–" in the battery compartment
— do not use an old battery with a new one, or different types of batteries together
— remove the batteries when you do not use the unit for a long period of time
— do not charge the batteries.

If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Notes on wireless remote

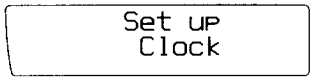
- Do not leave the wireless remote in a location near any heat sources, or in a place subject to direct sunlight (especially on the dashboard in summer etc.).
- When you park your car in direct sunlight, detach the wireless remote and place it in a location such as the glove-box, where it will not be subjected to direct sunlight.

Setting the clock

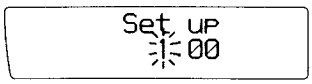
The clock has a 12-hour digital indication.

Example: Set the clock to 10:08

1 Press (SHIFT), then press (2) (SET UP).

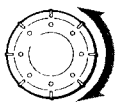


❶ Press (4) (→).



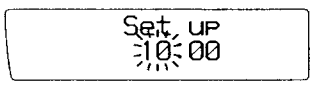
The hour digit flashes.

❷ Set the hour.

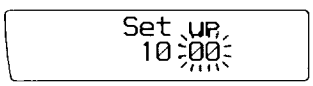


to go back

to go forward

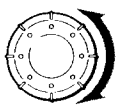


❸ Press (4) (→).



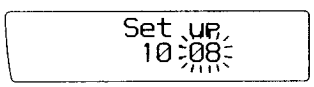
The minute digits flash.

❹ Set the minute.

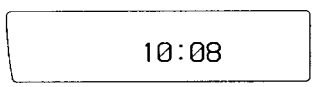


to go back

to go forward



2 Press (SHIFT).



The clock starts.

Note

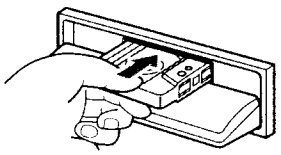
If the POWER SELECT switch on the bottom of the unit is set to the ❽ position, turn the power on first, then set the clock. To turn the power on, press (SOURCE).

EN

Cassette Player

Listening to the tape

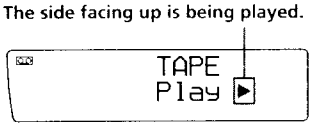
Press (OPEN) and insert the cassette.



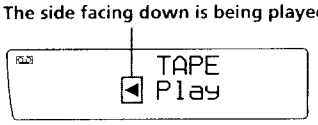
The front panel closes automatically, and playback starts.

If the cassette is already inserted, press (SOURCE) until "TAPE" and "Play ▶" or "◀ Play" appear in the display. Playback starts automatically.

The side facing up is being played.



The side facing down is being played.



Tips

- *To change the tape transport direction, press (7) (◀I▶).*
- *"TAPE" and "Metal" appear in the display when you insert the metal or CrO_2 tape (Auto Metal function).*

To	Press
Stop playback	(OFF)
Eject the cassette	(OPEN)

Fast-winding the tape

During playback, press either side of (SEEK/AMS) for one second.

Fast-forward

Rewind

To start playback during fast-forwarding or rewinding, press (7) (◀I▶).

Locating the beginning of the tracks
— Automatic Music Sensor (AMS)

You can skip up to nine tracks at one time.

During playback, press either side of (SEEK/AMS) momentarily.

To locate the succeeding tracks

To locate the previous tracks

Note

The AMS function may not work when :

- *the blanks between tracks are shorter than four seconds.*
- *there are noises.*
- *there are long sections of low volume or quiet sections.*

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Tape playback → Clock → Frequency*

* *While the ATA function is activated.*

Playing the tape in various modes

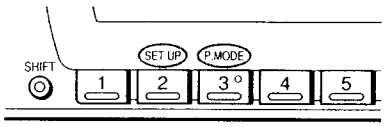
You can play the tape in various modes:

- Intro (Intro Scan) lets you play the first 10 seconds of all the tracks.
- Repeat (Repeat Play) repeats the current track.
- NR (Dolby NR) lets you select the Dolby* NR B or C system.
- ATA (Automatic Tuner Activation) turns on the tuner automatically while fast-winding the tape.
- B.Skip (Blank Skip) skips blanks longer than eight seconds.

* *Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.*

1 Press (SHIFT).

Every time you press (SHIFT), only the items you can select light up.



2 Press (3) (P.MODE), repeatedly until the desired play mode appears.

Each time you press (3), the item changes as follows:

Intro → Repeat → NR → ATA → B.Skip

3 Press (4) (→) to select the desired play mode setting (for example: on, NR B, or NR C).

Playback starts.

To go back to the normal playback mode, select "off" in step 3 above.

EN

Memorising stations automatically

— Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals and memorises them in the order of their frequencies. You can store up to 10 stations on each band (FM 1, FM 2, and AM).

Caution

When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

1 Press (SOURCE) repeatedly to select the desired band (FM 1, FM 2, and AM).

2 Press (SHIFT), then press (6) (BTM).
The unit stores stations in the order of their frequencies on the number buttons.
A beep sounds and the setting is stored.

Notes

- *The unit does not store stations with weak signals. If only a few stations are received, some number buttons remain empty.*
- *When a preset number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Memorising only the desired stations

You can store up to 10 stations on each band (20 for FM 1 and FM 2, 10 for AM) in the order of your choice.

1 Press (SOURCE) repeatedly to select the desired band.

2 Press either side of (SEEK/AMS) to tune in the station that you want to store on the number button.

3 Keep the desired number button ((1) to (10)) pressed until "MEM" appears in the display.

The number button indication appears in the display.

Note

If you try to store another station on the same number button, the previously stored station will be erased.

Receiving the memorised stations

1 Press (SOURCE) repeatedly to select the desired band.

2 Press the number button ((1) to (10)) momentarily, where the desired station is stored.

If you cannot tune in a preset station

Press either side of (SEEK/AMS) momentarily to search for the station (automatic tuning).
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Note

If the automatic tuning stops too frequently, press (SHIFT), then press (3) (P.MODE) repeatedly until "Local off" (local seek mode) is displayed. Then press (4) (→) to select "Local on."
Only the stations with relatively strong signals will be tuned in.

Tip

If you know the frequency of the station you want to listen to, press and hold down either side of (SEEK/AMS) for a few seconds until the desired frequency appears (manual tuning).

If FM stereo reception is poor

— Monaural Mode

1 Press (SHIFT), then press (3) (P.MODE) repeatedly until "Mono" appears.

2 Press (4) (→) repeatedly until "Mono on" appears.
The sound improves, but becomes monaural ("STEREO" disappears).

To go back to the normal mode, select "Mono off" in step 2 above.

Changing the displayed items

Each time you press (DSPL), the item changes as follows:

Station name ↔ Clock

Storing the station names

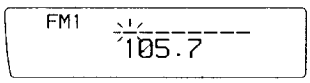
— Station Memo

You can assign a name to each radio station and store it in memory. The name of the station currently tuned in appears in the display. You can store up to eight characters for a station.

Storing the station names

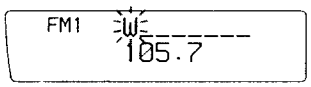
1 Tune in a station whose name you want to store.

2 Press (LIST) for two seconds.



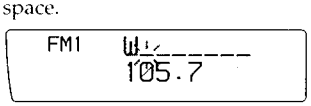
3 Enter the characters.

❶ Rotate the dial in a clockwise direction to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial in a counterclockwise direction, the characters appear in the reverse order. If you want to put a blank space between characters, select "_" (underbar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

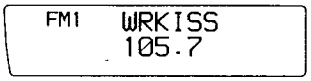
4 To return to the normal radio reception, press (LIST) for two seconds.

Tip

To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the station name

Press (DSPL) during radio reception.



Each time you press (DSPL), the item changes as follows:

Station name* ⟷ Clock

** If the station name is not stored, "NO Name" appears in the display for one second.*

Erasing the station name

1 Tune in any station and press (LIST) for two seconds.

2 Press (DSPL) for two seconds.
"Delete" and the station name appear in the display.

3 Rotate the dial to select the name that you want to erase.

4 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 3 and 4 if you want to erase other names.

5 Press (LIST) for two seconds.
The unit returns to the normal radio reception mode.

Locating a station by frequency and name — List-up

You can search for the memorized stations names in the display.

1 Press (LIST) momentarily.
The frequency or the name assigned to the station currently receiving appears in the display.

2 Press (LIST) repeatedly until you find the desired station.

3 Press (5) (ENTER) to tune in the desired station.

Note

Once the station name or frequency has been displayed for five seconds, the display goes back to its normal mode. To go back to the normal mode, press (DSPL).

EN

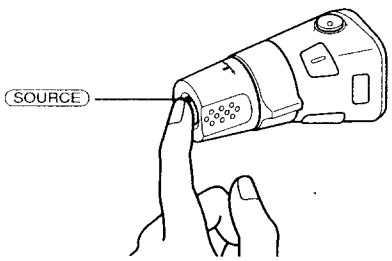
Radio

Other Functions

Using the rotary remote

The rotary remote works by pressing buttons and/or rotating controls.
You can control the optional CD or MD changer with the rotary remote.

By pressing the button (the SOURCE button)



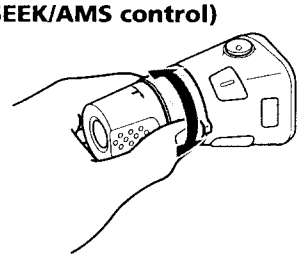
Each time you press (SOURCE), the source changes as follows:

FM1 → FM2 → AM → CD1 → CD2 → MD1 → MD2 → TAPE → TV → AUX

Tip

You can turn on this unit by pressing (SOURCE) on the rotary remote.

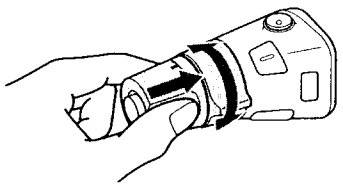
By rotating the control (the SEEK/AMS control)



Rotate the control momentarily and release it to:

- Locate the beginning of the tracks on the tape. Rotate and hold the control, and release it to fast-wind the tape. To playback, rotate and hold the control again, and release it.
- Locate a specific track on a disc. Rotate and hold the control to locate the specific point in a track, then release it to start playback.
- Tune in the stations automatically. Rotate and hold the control to tune in the specific station.

By rotating the control while pushing (the PRESET/DISC control)

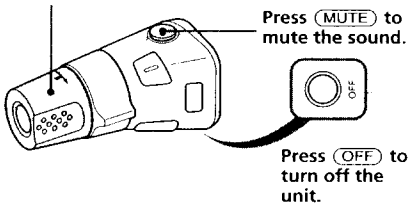


Rotate the control while pushing it to:

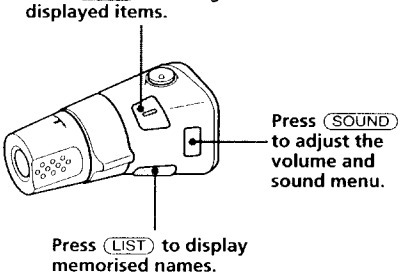
- Receive the stations memorised on the preset buttons.
- Change the disc.

Other operations

Rotate the VOL control to adjust the volume.

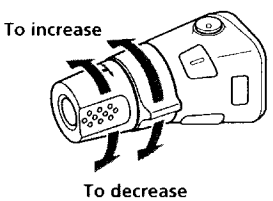


Press (DSPL) to change the displayed items.



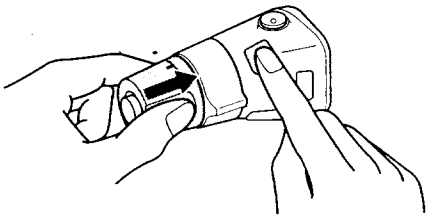
Changing the operative direction

The operative direction of controls is factory preset as in the illustration below.



EN

If you need to mount the rotary remote on the right of the steering column, you can reverse the operative direction of the controls.



Press (DSPL) two seconds while pushing the VOL control.

Tip

You can control the operative direction of controls with the unit.

Adjusting the sound characteristics

You can adjust the sub output volume, bass, treble, balance and fader.
Each source can store the sub output, bass and treble level respectively.

1 Select the item you want to adjust by pressing (SOUND) repeatedly.

VOL (volume) → SUB (sub output volume) → BAS (bass) → TRE (treble) → BAL (balance) → FAD (fader)

2 Adjust the selected item by rotating the dial.
Adjust within three seconds after selecting. (After three seconds, the dial works as volume control dial.)

Changing the sound and display settings

You can set:
- Amber/Green to change the illumination color to amber or green.
- Beep to turn on or off the beeps.
- Dimmer to change the brightness of the display.
  — Select "Auto" to dim the display only when you turn the lights on.
  — Select "on" to dim the display.
- Loud (Loudness) to enjoy bass and treble even at low volume. Bass and treble will be reinforced.
- RM (Rotary Remote) to change the operative direction of the controls of the rotary remote.
  — Select "norm" to use the rotary remote as the factory preset position.
  — Select "rev" when you mount the rotary remote on the right of the steering column.
- Angle to change the angle of the front panel.
  — Select "1" to make the front panel angle at about 80 degrees.
  — Select "2" to make the front panel angle at about 70 degrees.
- Contrast to adjust the contrast if the indications in the display are not recognizable because of the unit's installed position.

1 Press (SHIFT), then press (2) (SET UP).

2 Press (2) (SET UP) repeatedly until the desired setting mode appears.

Each time you press (2) (SET UP), the item changes as follows:
Clock → Amber/Green → Beep → Dimmer → Loud → RM → Angle → Contrast

3 Press (4) (→) to select the desired setting (for example: "on" or "off").
At "Contrast" setting, pressing (4) (→) makes the contrast higher, and pressing (1) (←) makes the contrast lower.

4 Press (SHIFT).
When the mode setting is complete, the normal playback mode appears.

Turning off the display

You can turn off the display. Even when you turn off the display, the buttons keep on illuminating. While the display is turned off, pressing any of the buttons turn the display on for five seconds.

1 Press (SHIFT), then press (2) (SET UP) for two seconds.

2 Press (4) (→) to select "off."

3 Press (2) (SET UP) for two seconds.
The normal playback mode appears.

To turn on the display, select "on" in step 2 above.

EN

With Optional Equipment

CD/MD Changer

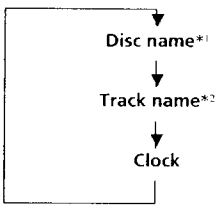
Playing a CD or MD

Press (SOURCE) until the desired changer appears.
CD/MD playback starts.

When a CD or MD changer is connected, all the tracks play from the beginning.

Changing the displayed items

Each time you press (DSPL) during CD/MD playback, the item changes as follows:



*1 *If you have not labeled the CD, "NO Name" appears in the display. If there is no prerecorded name for an MD, "NO D. Name" appears in the display.*

*2 *If the track name of an MD is not prerecorded, "NO T. Name" appears in the display.*

Tip

If the name of the MD is too long, you can scroll it across the display by pressing (SHIFT), then (1) (←).

Automatically scrolling a disc name — Auto Scroll

The Auto Scroll function automatically scrolls the disc or track name of an MD when you press (DSPL) and the name length exceeds ten characters.

1 Press (SHIFT), then press (2) (SET UP) repeatedly until "A. Scrl" appears.

2 Press (4) (→) to select "A. Scrl on."

To cancel Auto Scroll, select "A. Scrl off" in step 2 above.

Displaying the recording date of the currently selected MD

Press (DSPL) for two seconds during MD playback.
The recording date of the track is displayed for about three seconds.

Locating a specific track
— Automatic Music Sensor (AMS)

During playback, press either side of (SEEK/AMS) once for each track you want to skip.

To locate succeeding tracks

To locate previous tracks

Locating a specific point in a track
— Manual Search

During playback, press and hold either side of (SEEK/AMS). Release the button when you have found the desired point.

To search forward

To search backward

Locating a disc by disc number
— Direct Disc Selection

Press the number button that corresponds with the desired disc number.
The desired disc in the currently selected changer begins playback.

Scanning the tracks
— Intro Scan

You can play the first 10 seconds of all the tracks on the currently selected disc.

1 During playback, press (SHIFT), then press (3) (P.MODE) repeatedly until "Intro" appears.

2 Press (4) (→) repeatedly until "Intro on" appears.
Intro Scan starts.

To go back to the normal playback mode, select "Intro off" in step 2 above.

Playing tracks repeatedly
— Repeat Play

You can select:
- REP 1 to repeat a track.
- REP 2 to repeat a disc.
- REP 3 to repeat all the discs in the current changer when you connected two changers or more.

1 During playback, press (SHIFT), then press (3) (P.MODE) repeatedly until "Repeat" appears.

2 Press (4) (→) repeatedly until the desired setting appears.

Repeat 1 → Repeat 2 → Repeat 3 → Repeat off → Repeat 1

Repeat play starts.

To go back to the normal playback mode, select "Repeat off" in step 2 above.

Playing tracks in random order — Shuffle Play

You can select:
- SHUF 1 to play the tracks on the current disc in a random order.
- SHUF 2 to play the tracks in the current changer in a random order.
- SHUF 3 to play all the tracks in a random order when you connected two changers or more.

1 During playback, press (SHIFT), then press (3) (P.MODE) repeatedly until "Shuf" appears.

2 Press (4) (→) repeatedly until the desired setting appears.

Shuf 1 → Shuf 2 → Shuf 3 → Shuf off → Shuf 1

Shuffle play starts.

To go back to the normal playback mode, select "Shuf off" in step 2 above.

Creating a program

— Program Memory (CD/MD changer with program memory function)

You can play the tracks in the order you want by making your own program. You can make two programs: Program 1 and Program 2. You can select up to 12 tracks in each program. You can store the programs in memory.

1 Press (SHIFT), then press (3) (P.MODE) for two seconds.

Program edit mode

"P1" shows Program 1 is selected.

If you have labeled the disc, the bank edit mode appears. Press (3) (P.MODE) to display "PGM edit" above.

To select Program 2, press (4) (→) repeatedly until "P 2" appears.

2 Select the track you want.

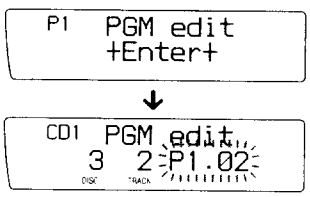
❶ Press (SOURCE) repeatedly to select the changer.

❷ Press (SHIFT), then press the number button to select the disc.

❸ Press (SHIFT).

❹ Press either side of (SEEK/AMS) to select the track.

3 Press (5) (ENTER) momentarily.



4 To continue entering tracks, repeat steps 2 and 3.

5 When you finish entering tracks, press (3) (P.MODE) for two seconds.

EN

Notes

- *"*Wait*" appears in the display while the unit is reading the data, or when a disc has not been put into the unit.*
- *"*Mem full*" appears in the display when you try to enter more than 12 tracks into a program at one time.*

Playing the stored program

Changing the disc order in the changer will not affect program memory play.

You can select:
- PGM 1 to play Program 1.
- PGM 2 to play Program 2.
- PGM 1+2 to play Programs 1 and 2.

1 Press (SHIFT).

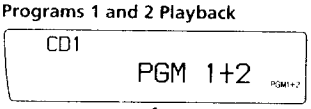
2 Press (3) (P.MODE) repeatedly until "PGM" appears.

3 Press (4) (→) repeatedly until the desired program appears.
Program play starts.

Program 1 Playback

Program 2 Playback

Programs 1 and 2 Playback



Normal Playback

To go back to the normal playback mode, select "PGM off" in step 3 above.

Notes

- *If you press the number button during program memory play, program memory play is interrupted, and playback of the selected disc starts.*
- *"NO Data" appears in the display if no track is stored in the program.*
- *If a track stored into the program memory is not in the disc magazine, the track will be skipped.*
- *When the disc magazine contains not a single track stored into the program memory, or when the program information has not been loaded yet, "Not Ready" appears.*

Erasing the entire program

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit".

2 Press ① (←) repeatedly until "DEL" appears.

To erase Program 2, press ④ (→) repeatedly until "PGM 2" appears.

3 Press ⑤ (ENTER) for two seconds.

The entire program is erased.

4 When you finish erasing programs, press ③ (P.MODE) for two seconds.

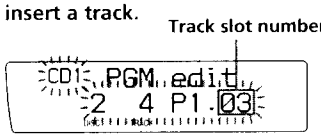
Adding tracks to the program

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit".

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

2 Press ① (←) or ④ (→) to select the track slot number where you want to insert a track.

Track slot number



3 Press either side of (SEEK/AMS) to select the track you want to insert.

4 Press ⑤ (ENTER) momentarily to enter the track.
The current track in that slot number and the succeeding tracks shift down.
To continue inserting tracks, repeat steps 2 through 4.

Note
*Once all 12 slots have been filled, "*Mem full*" appears in the display, and you cannot insert tracks.*

5 When you finish inserting tracks, press ③ (P.MODE) for two seconds.

Erasing the tracks in the program

1 Press (SHIFT), then press ③ (P.MODE) for two seconds.
If you have labeled the disc, the bank edit mode appears. Press ③ (P.MODE) to display "PGM edit".

To select Program 2, press ④ (→) repeatedly until "P 2" appears.

2 Press ① (←) or ④ (→) to select the track you want to erase.

Track Slot Number

The track currently registered in slot 6 of Program 1.

3 Press ⑤ (ENTER) for two seconds.
When you erase a track from a slot number, the succeeding tracks shift up to fill the gap.

4 To continue erasing tracks, repeat steps 2 and 3.

5 When you finish erasing tracks, press ③ (P.MODE) for two seconds.

EN

CD/MD Changer

Labeling a CD

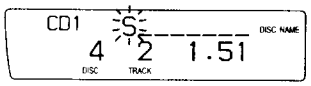
— Disc Memo
(CD changer with custom file function)

You can label each disc with a personalized name. You can enter up to 8 characters for a disc. If you label a CD, you can locate a disc by name (page 17) and select the specific tracks for playback (page 17).

1 Play the CD and press (LIST) for two seconds.

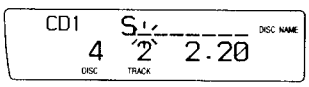
2 Enter the characters.

❶ Rotate the dial in a clockwise direction to select the desired characters.
(A → B → C → ··· Z → 0 → 1 → 2 → ··· 9 → + → − → * → / → \ → > → < → . → _)



If you rotate the dial in a counterclockwise direction, the characters appear in the reverse order. If you want to put a blank space between characters, select "_" (under-bar).

❷ Press (4) (→) after locating the desired character.
The flashing cursor moves to the next space.



If you press (1) (←), the flashing cursor moves to the left.

❸ Repeat steps ❶ and ❷ to enter the entire name.

3 To return to the normal CD playback mode, press (LIST) for two seconds.

Tip
To erase/correct a name, enter "_" (under-bar) for each character.

Displaying the disc memo

Press (DSPL) during CD playback.

Each time you press (DSPL) during CD playback, the item changes as follows:
Disc memo ⟷ Clock

Erasing the disc memo

1 Press (SOURCE) to select the CD changer.

2 Press (LIST) for two seconds.

3 Press (DSPL) for two seconds.
"Delete" and the disc memo appear in the display.

4 Rotate the dial to select the name that you want to erase.

5 Press (5) (ENTER) for two seconds.
The name is erased.
Repeat steps 4 and 5 if you want to erase other names.

6 Press (LIST) for two seconds.
The unit returns to the normal CD playback mode.

EN

Locating a disc by name

— List-up (CD changer with custom file function or MD changer)

You can use this function for the discs that have been assigned a custom name. For more information on disc names, refer to "Labeling a CD" (page 16).

1 Press (LIST) momentarily.
The names assigned to the disc currently playing and the next disc to be played appear in the display. The name assigned to currently playing disc is flashing.

2 Press (LIST) repeatedly until you find the desired disc.

3 Press (5) (ENTER) to play back the disc.

Notes

- *To go back the normal display, press (DSPL). Once a disc name has been displayed for five seconds, the display goes back to its normal playback mode.*
- *The track names are not displayed during MD playback.*
- *If there are no discs in the magazine, "NO Disc" appears in the display.*
- *If a disc has not been assigned a custom file, "********" appears in the display.*
- *If the disc information has not been read by the unit, "?" appears in the display. To load the disc, first press the number button, then choose the disc that has not been loaded.*
- *The information appears only in upper cases. There are also some letters which cannot be displayed (during MD playback).*

Selecting the specific tracks for playback

— Bank
(CD changer with custom file function)

If you label the disc, you can set the unit to skip tracks and play only the tracks you want.

1 Start playing the disc and press (SHIFT). Then press (3) (P.MODE) for two seconds.

Bank edit mode

Note

If you have not labeled the disc, the bank edit mode does not appear and the program edit mode appears. To go back to the normal playback mode, press (3) (P.MODE) for two seconds.

2 Press either side of (SEEK/AMS) to select the track number you want to skip and press (5) (ENTER).

The indication changes from "Play" to "Skip." If you want to return to "Play," press (5) (ENTER) again.

3 Repeat step 2 to set the "Play" or "Skip" mode on all the tracks.

4 Press (3) (P.MODE) for two seconds.

Notes

- *You can set the "Play" and "Skip" mode on up to 24 tracks.*
- *You cannot set the "Skip" mode on all the tracks.*

Playing the specific tracks only

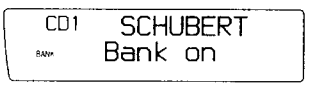
You can select:

- Bank on to play the tracks with the "Play" setting.
- Bank inv (inverse) to play the tracks with the "Skip" setting.

1 During playback, press (SHIFT), then press (3) (P.MODE) repeatedly until "Bank" appears.

2 Press (4) (→) repeatedly until the desired setting appears.

→ Bank on → Bank inv → Bank off →



Playback starts from the track following the current one.

To go back to the normal playing mode, select "Bank off" in step 2 above.

EN

CD/MD changer

DSP

With the optional XDP-U50D connected

The optional XDP-U50D lets you add some effects to the sound field of the currently selected source.

Selecting a surround menu

You can select a desired surround menu to best fit the source audio. The following menu can simulate different sound fields and enhance the sound so that you can feel as if you are in a live concert.

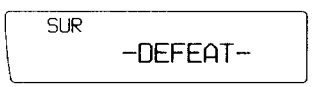
EN

Surround menu

HALL	Concert hall
JAZZ	Jazz club
DISCO	Disco with thick walls
THEATER	Movie theater
PARK	Big open space
LIVE	Live concert
OPERA	Opera house
CHURCH	Church/chapel with a lot of reverberation
STADIUM	Open-air concert in a stadium
CELLAR	Cellar with a lot of reverberation
DEFEAT	Normal sound without any DSP effects

1 **Press (SOURCE) to select a source (radio, tape, CD, or MD).**

2 **Press (SOUND) repeatedly until "SUR" appears.**



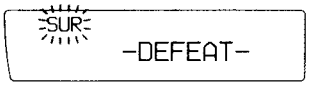
3 **Rotate the dial to select the desired surround menu.**
The surround menu appears in the order shown above.

After three seconds, the display goes back to the normal playback mode.

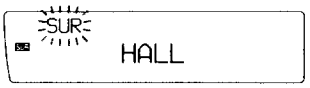
Adjusting the effect level

1 **Press (SOURCE) to select a source (radio, tape, CD, or MD).**

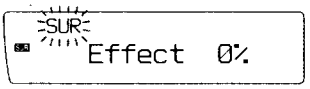
2 **Press (SOUND) for two seconds.**



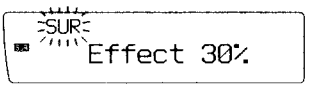
3 **Rotate the dial to select the desired surround menu.**



4 **Press (4) (→).**



5 **Rotate the dial to adjust the level.**
You can adjust the level from 0 to 100%. Increase the level to enjoy more enhanced effects.



6 **Press (SOUND) for two seconds.**

Storing the surround effect onto the CDs

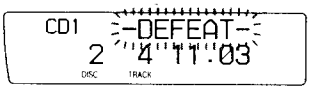
— Digital Signal Processor (DSP) Custom File (CD changer with custom file function)

Once you have registered the desired surround menu onto the discs, you can enjoy the same surround menu every time you play them. (Only when you have labeled the disc by the Custom File function.)

1 **Press (LIST) for two seconds.**

2 **Press (LIST) until the surround menu appears.**

DSP Custom File mode



3 **Rotate the dial to select the desired surround menu.**

4 **Press (LIST) for two seconds.**
When the effect setting complete, the display goes back to the normal playback mode.

Playing the disc with the stored surround menu

1 **Press (SHIFT), then press (3) (P.MODE) repeatedly until "D.File" appears.**

2 **Press (4) (→) to select "D. File on."**
After five seconds, the display goes back to the normal playback mode.

To cancel to play the disc with stored surround menu, select "D. File off" in step 2 above.

Changing the stored surround effect

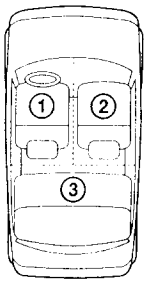
Play the disc whose surround mode you want to change, and follow the steps of "Storing the surround effect onto CDs".

Erasing the stored surround effect

Select "DEFEAT" in step 3 of "Storing the surround effect onto CDs".

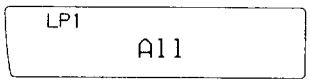
Selecting the listening position

You can set the time for the sound to reach the listeners from the speakers.
The unit can simulate a natural sound field so that you can feel as if you are in the center of the sound field wherever you sit in the car.



Display window	Center of sound field
LP1 All	Normal setting (① + ② + ③)
LP2 Front	Front part (① + ②)
LP3 Front R	Right front (②)
LP4 Front L	Left front (①)
LP5 Rear	Rear part (③)

1 **Press (SOUND) momentarily until "LP1" appears.**



2 **Rotate the dial to select the desired listening position.**
The listening positions appear in the order shown above.

After three seconds, the display goes back to the normal playback mode.

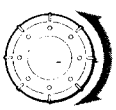
Adjusting the listening position

1 **Press (SOUND) for two seconds.**

2 **Rotate the dial to select the desired listening position.**

3 **Press (4) (→).**

4 **Rotate the dial to adjust the center of the sound field to the left or right. Then set the center of the sound field.**



Center moves to the L (left)

Center moves to the R (right)

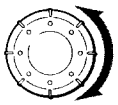
continue to next page →

EN

DSP

5 Press ④ (→).

6 **Rotate the dial to adjust the center of the sound field to the front or rear.**



Center moves to the R (rear)

Center moves to the F (front)

7 **Press SOUND for two seconds.**
When the effect setting is complete, the normal playback mode display appears.

Adjusting the fader (FAD)

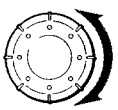
EN

Normally, with the DSP mode on, the volume of the output sound from the rear speakers is lowered automatically to improve the efficiency of the listening position setting. If you want to raise the rear speaker volume, adjust the fader.

1 **Follow steps 1 to 3 of "Selecting a surround menu" (page 18).**

2 **Press SOUND momentarily until "FAD" appears.**

3 **Rotate the dial to adjust the fader.**



Decreases front speaker volume

Increases front speaker volume

After three seconds, the display goes back to the normal playback mode.

Adjusting the volume of the subwoofer(s)

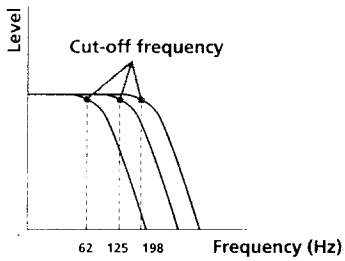
1 **Press SOURCE to select a source (radio, tape, CD, or MD).**

2 **Press SOUND repeatedly until "SUB" appears.**

3 **Rotate the dial to adjust the volume.**
After three seconds, the display goes back to the normal playback mode.

Adjusting the frequency of the subwoofer(s)

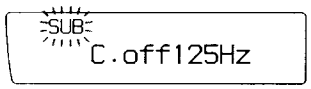
To match the characteristics of the connected subwoofer(s), you can cut the unwanted high and middle frequency signals entering the subwoofer(s). By setting the cut-off frequency (see the diagram below), the subwoofer(s) will output only low frequency signals so that you can get a clearer sound image.



1 **Press SOURCE to select a source (radio, tape, CD, or MD).**

2 **Press SOUND for two seconds.**

3 **Press SOUND repeatedly until "SUB" appears.**



4 **Rotate the dial to select the desired cut-off frequency.**
The cut-off frequency in the display changes.

5 **Press SOUND for two seconds.**
When the frequency setting is complete, the display goes back to the normal playback mode.

Adjusting the volume of the bass and treble

You can adjust the volume of the bass and treble to best fit the acoustic characteristics inside your car.

1 Press (SOURCE) to select a source (radio, tape, CD, or MD).

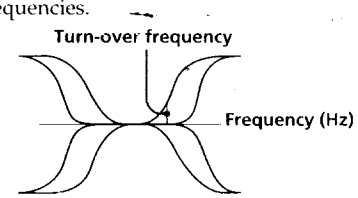
2 Press (SOUND) repeatedly until "BAS" or "TRE" appears.

3 Rotate the dial to adjust the volume.

After three seconds, the display goes back to the normal playback mode.

Adjusting the turn-over frequency

You can adjust the bass and treble turn-over frequencies.

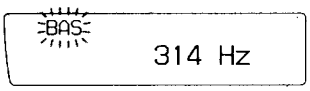


1 Press (SOURCE) to select a source (radio, tape, CD, or MD).

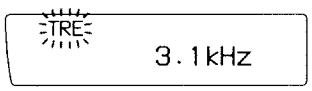
2 Press (SOUND) for two seconds.

3 Press (SOUND) repeatedly until "BAS" or "TRE" appears.

Bass adjusting mode



Treble adjusting mode



4 Rotate the dial to select the turn-over frequency.

The turn-over frequencies change as follows:

Bass:
198 Hz → 250 Hz → 314 Hz* → 396 Hz

Treble:
2.0 kHz → 3.1 kHz* → 4.0 kHz → 5.0 kHz

** Factory-set frequency*

5 Press (SOUND) for two seconds.

The display goes back to the normal playback mode.

Listening to each program source in its registered surround menu

— Source Sound Memory (SSM)

You can listen to the same source always in the same surround menu even after changing the program source or turning the unit on and off again.

Changing the line output level

1 Press (SHIFT), then press (2) (SET UP) until "L.out" appears.

2 Press (4) (→) to select the desired setting (–10 dB or –16 dB).

TV/Video

With the optional TV tuner and TV monitor connected

Watching the TV

1 **Press (SOURCE) repeatedly until "TV" appears.**

2 **Press either side of (SEEK/AMS) to select the desired TV band.**

Watching the video

EN

Press (SOURCE) repeatedly until "AUX" appears.
Playback the video.

Memorizing TV channels automatically

— Automatic Memory (A.mem)

The unit selects the TV channels with the strongest signals and memorizes them in the order of their channel numbers.

Caution
When tuning in the station while driving, use Best Tuning Memory to prevent accidents.

1 **Press (SOURCE) repeatedly until "TV" appears.**

2 **Press (SHIFT), then press (6) (BTM).**
The unit stores TV channels in the order of their frequencies on the number buttons.

Notes
- *The unit does not store TV channels with weak signals. If only a few TV channels are received, some number buttons will remain empty.*
- *When a preset number is indicated in the display, the unit starts storing TV channels from the one currently displayed.*

Memorizing only the desired TV channels

You can store up to 10 channels on the number buttons in the order of your choice.

1 **Press (SOURCE) repeatedly until "TV" appears.**

2 **Press either side of (SEEK/AMS) to tune in the TV channel that you want to store on the number button.**

3 **Keep the desired number button ((1) to (10)) pressed for two seconds until you hear a beep tone.**
The number button indication appears in the display.

Note
If you try to store another channel on the same number button, the previously stored channel will be erased.

Storing the TV channel names

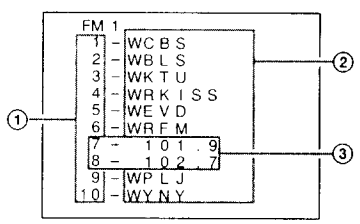
Do the steps in "Storing the station names" (page 9).

Displaying the TV or radio station names — List-up

You can display the memorized TV channels or radio stations.

Press (LIST) momentarily during TV or radio reception.

Example: When receiving the FM1 band



① **Preset number**
② **Stored station names**
③ **Frequencies**

The current station is displayed in magenta.

Note

If the name of a station is not stored, the frequency of that station will be displayed instead.

Turning off the display

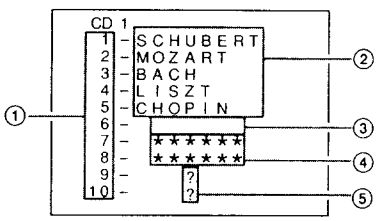
During radio reception, press (LIST) again.

During TV reception, the list display on the TV monitor will automatically turn off after a few seconds.

Displaying the information stored on discs — List-up

Press (LIST) momentarily during CD/MD playback.

Example: When CD changer 1 is selected.



① **Disc number (only when the CD changer is selected)**
② **Titles stored on the custom file**
③ **No disc is loaded**
④ **No stored titles**
⑤ **TOC information has not been identified yet**

The current CD is displayed in magenta, the MD is displayed in yellow.

Tip

Each time you press (LIST) during MD playback, the item changes as follows:

Disc name → Track name → Normal play

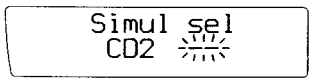
Turning off the display

Press (LIST) again.

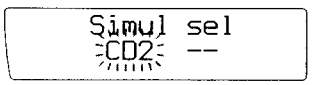
Watching the TV or video while listening to a tape, CD, or MD — Simultaneous Play

The simultaneous play function does not work while you are listening to the radio.

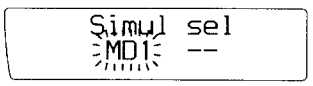
1 **Press (SOURCE) for two seconds.**



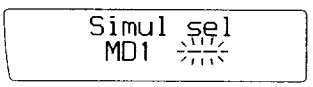
2 **Press ① (←).**



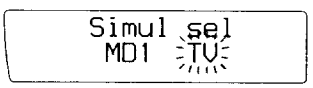
3 **Press (SOURCE) repeatedly to select a tape, CD, or MD.**



4 **Press ④ (→).**



5 **Press (SOURCE) repeatedly to select a TV or video.**



6 **Press (SOURCE) for two seconds.**

Simultaneous Play starts.

Returning to the normal mode

To cancel the tape, CD, or MD, do the steps above and select "– –" in step 3.

To cancel the TV or video, do the steps above and select "– –" in step 5.

Note

If you press the OPEN button of this unit or the EJECT button on a CD/MD changer when the unit is in the simultaneous play mode, the simultaneous play is canceled.

EN

TV/Video

Additional Information

Precautions

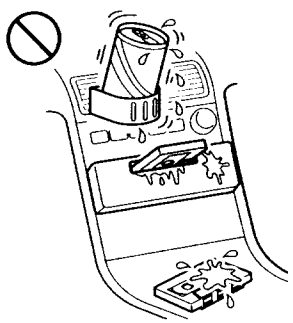
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.
- If no power is being supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
- If your car is equipped with a power antenna, note that it will extend automatically while the tuner function is selected.

EN

If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Sony dealer.

To maintain high quality sound

If you have drink holders near your audio equipment, be careful not to splash juice or other soft drinks onto the car audio. Sugary residues on this unit or cassette tapes may contaminate the playback heads, reduce the sound quality, or prevent sound reproduction altogether.
Cassette cleaning kits do not remove sugar from the tape heads.

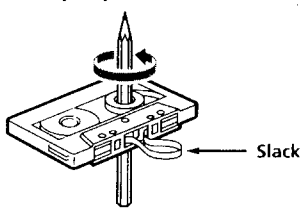


Notes on cassette deck tape heads

- Long use of cassette tapes contaminates the tape head causing poor sound quality or complete sound dropout. Therefore, we recommend cleaning the tape head once a month or so with the separately available Sony Cassette Cleaning Set. If the sound does not improve after using a cleaning cassette, please consult your nearest Sony dealer.
- In case of old or inferior cassette tapes, the tape head gets contaminated much more quickly. Depending on the tape, one or two playbacks may cause poor sound.

Cassette care

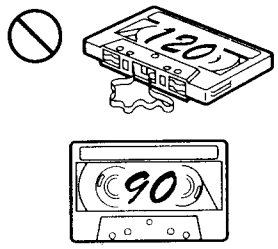
- Do not touch the tape surface of a cassette, as any dirt or dust will contaminate the heads.
- Keep cassettes away from equipment with built-in magnets such as speakers and amplifiers, as erasure or distortion on the recorded tape could occur.
- Do not expose cassettes to direct sunlight, extremely cold temperatures or moisture.
- Slack in the tape may cause the tape to be caught in the machine. Before you insert the tape, use a pencil or similar object to turn the reel and take up any slack.



- Distorted cassettes and loose labels can cause problems when inserting or ejecting tapes. Remove or replace loose labels.

Cassettes longer than 90 minutes

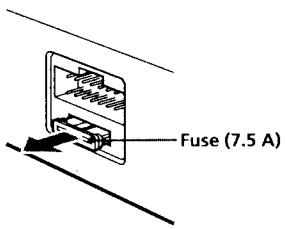
The use of cassettes longer than 90 minutes is not recommended except for long continuous play. The tapes used for these cassettes are very thin and tend to be stretched easily. Frequent playing and stopping of these tapes may cause them to be pulled into the cassette deck mechanism.



Maintenance

Fuse replacement

When replacing the fuse, be sure to use one that matches the amperage described on the fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

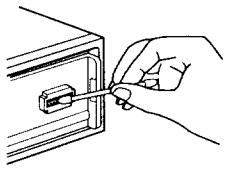


Warning

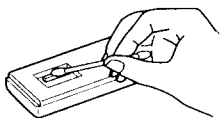
Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. To prevent this, open the front panel by pressing (RELEASE), then detach it and clean the connectors with a cotton swab dipped in alcohol. Do not apply too much force. Otherwise, the connectors may be damaged.

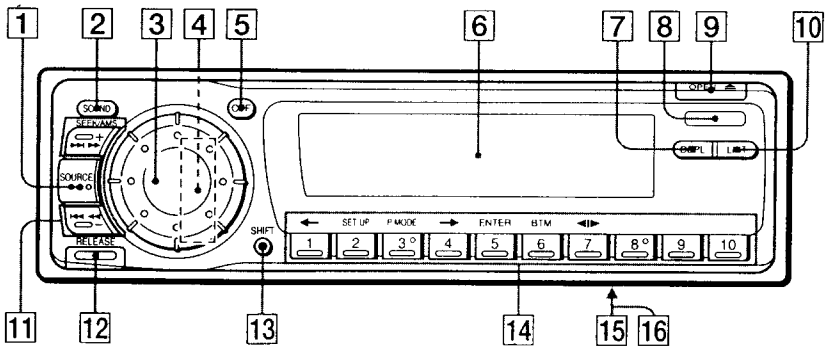


Main unit



Back of the front panel

Location of controls



EN

Refer to the pages for details.

1 **SOURCE (source select) button 6, 8, 12, 14, 16, 18, 20, 21, 22, 23, 27**

2 **SOUND button 11, 18, 19, 20, 21**

3 **Dial (volume/sub output volume/bass/ treble/balance/fader control) 6, 9, 16, 18, 19, 20, 21**

4 **Reset buttons (located on the front side of the unit hidden by the front panel) 4**

5 **OFF button 4, 6**

6 **Display window**

7 **DSPL button (display mode change) button 7, 8, 9, 13, 16, 17**

8 **Receptor for wireless remote**

9 **OPEN ⏏ button 6**

10 **LIST button**
Disc Memo 16
DSP Custom File 19
List-up 9, 17, 22, 23
Station Memo 9

11 **SEEK/AMS (seek/Automatic Music Sensor/manual search) button 6, 7, 8, 13, 14, 15, 17, 22, 29**

12 **RELEASE button 4, 25**

13 **SHIFT button**
BTM 8, 22
SET UP 6, 11, 12, 21
P.MODE 7, 8, 13, 14, 15, 17, 19

14 **During radio/TV reception:**

Preset number buttons 8, 22

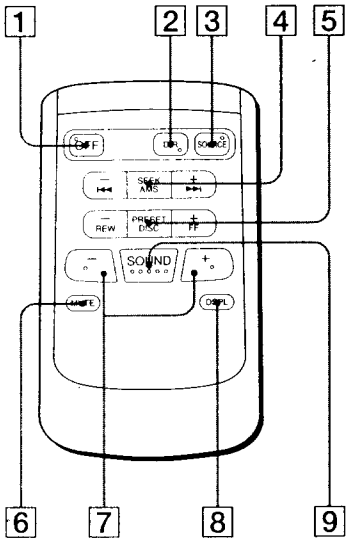
During CD/MD playback:

Direct disc selection buttons 13

15 **POWER SELECT switch (located on the bottom of the unit)**
See "POWER SELECT switch" in the Installation/Connections manual.

16 **FM DIVERSITY switch (located on the rear of the unit)**
See "FM DIVERSITY switch" in the Installation/Connections manual.

Wireless remote (RM-X42)



Buttons with the same functions as those on this unit.

1 **OFF button**

3 **SOURCE button**

4 **SEEK/AMS button**

5 **PRESET/DISC button**
You cannot do the manual search and manual tuning with the remote commander.

6 **MUTE button**

7 **(−) (+) buttons**

8 **DSPL button**

9 **SOUND button**

Buttons with different function than those on the master unit.

2 **DIR button**
Changes the playback side of the cassette.

When the POWER SELECT switch is set to the ❸ position, the unit cannot be operated with the wireless remote unless (SOURCE) on the unit is pressed or a cassette is inserted to activate the unit first.

Specifications

Cassette player section

Tape track	4-track 2-channel stereo
Wow and flutter	0.06 % (WRMS)
Frequency response	25 – 22,000 Hz ±3 dB
Signal-to-noise ratio	

Cassette type	Dolby B NR	Dolby C NR	Dolby NR off
TYPE II, III, IV	70 dB	74 dB	61 dB
TYPE I	67 dB	71 dB	58 dB

Tuner section

FM

Tuning range	87.5 – 107.9 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz	0.5 % (stereo), 0.3 % (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

AM

Tuning range	530 – 1,710 kHz
Antenna terminal	External antenna connector
Intermediate frequency	10.71 MHz/450 kHz
Sensitivity	25 µV

Pre-amplifier section

Line outs	FRONT/REAR
Line out impedance	200 ohm
Bus input impedance	50 kohm
Distortion	0.005 % (1 kHz Bus Input)
Line out level	4 V rms

General

Outputs	Line outputs (3) Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±8 dB at 100 Hz Treble ±8 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 188 × 58 × 178 mm (7 1/8 × 2 1/8 × 7 1/8 in.) (w/h/d)
Mounting dimension	Approx. 182 × 53 × 157 mm (7 1/4 × 2 1/8 × 6 1/4 in.) (w/h/d)
Mass	Approx. 1.8 kg (3 lb. 15 oz.)
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Rotary remote RM-X2S (1) Wireless remote RM-X42 (1)
Optional accessories	BUS cable (supplied with an RCA pin cord) RC-61 (1 m), RC-62 (2 m) RCA pin cord RC-63 (1 m), RC-64 (2 m), RC-65 (5 m) Sleeve GMD-203
Optional equipment	CD changer CDX-72, CDX-81, CDX-91 (10 discs) CDX-T60, CDX-T62 (6 discs) MD changer MDX-60 Source selector XA-C30, etc. Digital equalizer preamplifier XDP-210EQ TV tuner XT-40V, etc.

Design and specifications are subject to change without notice.

EN

Troubleshooting guide

The following check help you remedy most problems that you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

General

Problem	Cause/Solution
No sound	• Rotate the dial in a clockwise direction to adjust the volume. • Set the fader control to the center position for 2-speaker systems.
The contents of the memory have been erased.	• The power cord or battery has been disconnected. • The reset button has been pressed. → Store again into the memory.
Indications do not appear in the display.	Remove the front panel and clean the connectors. See "Cleaning the connectors" (page 25) for details.

Tape playback

Problem	Cause/Solution
Playback sound is distorted.	Contamination of the tape head. → Clean the head.
The AMS does not operate correctly.	• There is a noise in the space between tracks. • A blank space is too short (less than four seconds). • ▶▶I on (SEEK/AMS) is pressed immediately before the following tracks. • I◀◀ on (SEEK/AMS) is pressed immediately after the track starts. • A long pause, or a passage of low frequencies or very low sound level is treated as a blank space.

Radio reception

Problem	Cause/Solution
Preset tuning is not possible.	• Memorise the correct frequency. • The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.
The "STEREO" indication flashes.	• Tune in the frequency correctly. • The broadcast signal is too weak. → Set to the monaural mode (page 8).

DSP functions

Problem	Cause/Solution
No sound, or sound is too low.	The volume of the rear speakers may have been automatically lowered in order to maximize the effect of the listening position adjustment. → Rotate the dial in a clockwise direction to adjust the balance. The speaker balance can be set separately for the DSP on mode and DSP off mode (page 20).